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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/800,530	03/06/2001	Edward L. Schwartz	74451P127D10	4151

7590 12/23/2003

Michael J. Mallie
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
Seventh Floor
12400 Wilshire Boulevard
Los Angeles, CA 90025-1026

EXAMINER

SHERALI, ISHRAT I

ART UNIT	PAPER NUMBER
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2621

DATE MAILED: 12/23/2003

13

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/800,530

Applicant(s)

EDWARD SCHWARTZ

Examiner

Sherali Ishrat

Art Unit

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lynch et al. (US 6,229,929) and Li (US 6,327,392)

Regarding claims 1, 9, 17 and 20 Lynch discloses receiving a sequence image data to compress (See Lynch, figure 5A, Lynch shows in blocks 200-232 receiving a sequence image data to compress); and

specifying scalar quantization with a power of two step sizes (See Lynch, col. 14, lines 42-44, Lynch shows specifying scalar quantization with a power of two step sizes).

Lynch however has not shown using three bit value to apply to the sequence image data.

In same field of endeavor Li shows using three bit value to apply to the sequence image data (See Li, col. 9, lines 55-60, Li shows in JPEG 2000, bits further grouped into three bitplane, or three sub mode, predicted significance mode, refine mode, predicted insignificant mode).

Therefore it would have been obvious to one having ordinary skill in the art at the time the the invention was made to use three bit value to apply to the sequence image data because such a process provides coding of only significant coefficients thereby reducing the processor required to compress the image data sequence.

Regarding claims 2, 10, 19, Li discloses coding bitplanes specified for application of the scalar quantization (See Li, col. 9, lines 54-55, Li coding partial bitplanes).

Regarding claims 3, 11 Li discloses non-specified bit planes not coded (See Li, col. 9, lines 61-63, predicted insignificance mode where current coefficient not significant).

Regarding claims 4, 13 Li discloses three bit values speicy 0,1,2,3,4,5,6 or all bit planes for truncation (Li, col. 9, lines 55-62, Li, shows which coefficients are significant and which coefficients are not significant thereby truncating insignificant coefficients).

Regarding claim 6, 14 Lynch discloses scalar quantization of individual frames (See Lynch, col. 14, lines 44-46, Lynch shows scalar quantization of individual frames).

Regarding claim 7, 15, 18 Li discloses JPEG 2000 (See Li, col. 9, lines 54-55, JPEG 2000):

Regarding claim 8, 16 Li discloses writing three bit valuiies to controller to cause the control compression (See Li, col. 9, lines 54-56, three partial bitplanes are used for arithmetic coder and therefore arithmetic coder controls the coding).

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Regarding claim 12, Li discloses three bit values specify whether to number of bit plane to truncate (See Li, col. 9, lines 55-60, Li show three bits for specifying significance or non significance coefficients i.e to truncate or not truncate bitplanes).

Communication

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sherali Ishrat whose telephone number is 703-308-9589. The examiner can normally be reached on 8:00 AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo Boudreau can be reached on 703-305-4706. The fax phone numbers for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-4750.

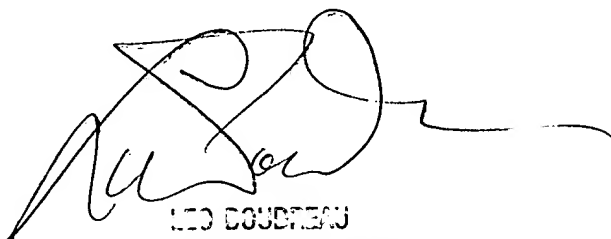


Ishrat Sherali

Patent Examiner

Group Art Unit 2621

December 12, 2003



LEO BOUDREAU
SENIOR PATENT EXAMINER
BIOLOGY CENTER 2600